

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP) Renewal
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
CITY OF INDIANAPOLIS
OFFICE OF ENVIRONMENTAL SERVICES**

**Raytheon Technical Services Company
6125 East 21st Street (Mail Stop 71)
Indianapolis, Indiana 46219-2058**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-14722-00100	
Originally signed by: John B. Chavez, Administrator Office of Environmental Services	Issuance Date: May 21, 2003 Expiration Date: May 21, 2008

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Quarterly Report Form

Quarterly Report Form

Quarterly Report Form

Quarterly Report Form

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary source for the manufacturing of Avionic Equipment.

Authorized Individual:	Manager, Facilities Services
Source Address:	6125 East 21 st Street (Mail Stop 71), Indianapolis, Indiana 46219
Mailing Address:	6125 East 21 st Street (Mail Stop 71), Indianapolis, Indiana 46219
General Source Phone:	(317) 306-3525
SIC Code:	3669, 3679, 3812, 3823, 7699, 8711
Source Location Status:	Marion
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) Three (3) 20.25 MMBtu per hour Nebraska boilers, identified as EU1, EU2, and EU3, fired with either natural gas or distillate oil, constructed after June 9, 1989, with emissions exhausted to a separate stack for each boiler, identified as stack vents S₁, S₂ and S₃.
- (b) The Production Paint Booths 1-5, identified as emission units 4 through 7 and 10, and the Aircraft Armament Equipment Paint Shop, identified as emission unit 8.
 - (1) The Production Paint Booth 1, emission unit 4, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 1 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 1 is vented out stack identified as stack S₄.
 - (2) The Production Paint Booth 2, emissions unit 5, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 2 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 2 is vented out stack identified as stack S₅.
 - (3) The Production Paint Booth 3, emission unit 6, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 3 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 3 is vented out stack identified as stack S₆.

- (4) The Production Paint Booth 4, emission unit 7, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 4 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 4 is vented out stack identified as stack S₇.
- (5) The Aircraft Armament Equipment Paint Shop, emission unit 8, is equipped with an airless atomized sprayer with a dry filter to control over spray. This paint booth is used to coat avionics equipment. This booth was installed in 1995. Emission are vented out one stack identified as stack S₈
- (6) The Production Paint Booth 5, emission unit 10, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 5 is used to coat avionics equipment. This booth was constructed in 1998. Emissions from Production Paint booth 5 is vented out stack identified as stack S₁₀.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (b) A petroleum fuel, other than gasoline dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (c) Vessels storing lubricating oils, hydraulic oils, machining oils and machining fluids;
- (d) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (e) Cold degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, these operations are subject to 326 IAC 8-3-2 and 326 IAC 8-3-5;
- (f) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 F) or;
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 C (68 F);the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months;
- (g) The following equipment related to manufacturing activities not resulting in emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (h) Activities associated with the treatment of waste streams with an oil and grease content less than or equal to 1% by volume;
- (i) Forced and induced draft cooling tower systems not regulated under a NESHAP;

- (k) Paved and unpaved roads and parking lots with public access;
- (l) Asbestos abatement projects regulated by 326 IAC 14-10;
- (m) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment;
- (n) Blowdown for any of the following: sight glass: boiler; compressors; pumps and cooling towers;
- (o) Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to 450 cubic inches by volume;
- (p) Emergency generators as follows:
 - Diesel generators not exceeding 1600 horse power;
- (q) A laboratory as defined in 326 IAC 2-7-1(21)(D).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

(a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and OES, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

(b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by OES.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, and OES within a reasonable time, any information that IDEM, OAQ, and/or OES may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ and OES copies of records required to be kept by this permit.
- (c) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ and/or OES may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and/or OES on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, and/or OES may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ and/or OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and/or OES. IDEM, OAQ and/or OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner and/or OES within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;

- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ or OES, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM, OAQ

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

OES

Telephone No.: 317/327-2234

Facsimile No.: 317/327-2274

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management

Compliance Branch, Office of Air Quality

100 North Senate Avenue, P.O. Box 6015

Indianapolis, Indiana 46206-6015

and

City of Indianapolis

Office of Environmental Services

Air Quality Management Section

2700 South Belmont Avenue

Indianapolis Indiana 46221-2097

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ and/or OES may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ or OES by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality (Data Compliance Section)
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that

exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or OES determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ and/or OES to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or OES at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or OES may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and/or OES and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and/or OES on or before the date it is due.
- (2) If IDEM, OAQ and/or OES upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ and/or OES takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and OES any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and OES in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ and/or OES, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-8-16] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]
[326 IAC 2-7-9]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for O AQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9

or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality (Compliance Data Section)
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by

the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and/or OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on November 16, 1988.
- (b) Upon direct notification by IDEM, OAQ and/or OES that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or

- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.15 Compliance Response Plan - Preparation, Implementation, Records and Reports [326 IAC 2-7-5]
[326 IAC 2-8-4]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ, and OES upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and/or OES on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or OES within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality (Compliance Data Section)
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date

it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and/or OES on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) Three (3) 20.25 MMBtu per hour Nebraska boilers, identified as EU1, EU2, and EU3, fired with either natural gas or distillate oil, constructed after June 9, 1989, with emissions exhausted to a separate stack for each boiler, identified as stack vents S₁, S₂ and S₃.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Sulfur Dioxide (SO₂) [326 IAC 2-8-4] [326 IAC 2-2] [40 CFR 52.21]

- (a) Pursuant to 326 IAC 2-8-4, the input of No. 2 distillate oil to the three (3) 20.25 MMBtu per hour Nebraska Boilers (EU1, EU2, and EU3) shall be limited to less than 2,588.44 thousand gallons (kgals) per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to SO₂ emissions of 90.1 tons per year. Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.
- (b) For purposes of determining compliance based on SO₂ emissions, every one (1) million cubic feet (MMCF) of natural gas shall be equivalent to 0.0086 Kilo-gallons (Kgal) of No. 2 oil.

D.1.2 Sulfur Dioxide Emissions Limitations [326 IAC 7-1.1-2] [40 CFR 60.42, Subpart Dc] [326 IAC 12]

Pursuant to 326 IAC 7-1.1-2, the sulfur content of fuel oil combusted in the three (3) 20.25 million Btu per hour Nebraska Boilers (EU1, EU2, and EU3) shall be limited to 0.5 pounds per million Btu (lb/MM Btu) heat input (the equivalent of 0.5% sulfur content). This limitation on the sulfur content of fuel oils combusted satisfies the requirement of 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), and 40 CFR 60.42c (d) (Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units). Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

D.1.3 Particulate Emissions (PM) [326 IAC 6-2-4]

The three (3) Nebraska Boilers (EU1, EU2, and EU3) are subject to the PM limits in 326 IAC 6-2-4. This regulation applies since these units do not have actual PM emissions greater than 10 tons per year, are used for indirect heating, and were all installed after September 21, 1983. Pursuant to 326 IAC 6-2-4, particulate matter (PM) emissions shall be limited by the following equation

$$P_t = \frac{1.09}{Q^{0.26}}$$

- Where Pt = Pounds of PM emitted per million Btu(lb/mmBtu) heat input. Pt is equivalent to 0.37 lbs/mmBtu or 7.49 lbs/hr at maximum heat input capacity.
- Q = Total source maximum operating capacity rating in mmBtu per hour heat input. Q is equivalent to 60.75 MMBtu per hour in the case that all three boilers are operating simultaneously.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the three (3) 20.25 MMBtu per hour Nebraska Boilers.

Compliance Determination Requirements

D.1.5 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

When fueled by distillate oil, compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the two (2.0) MMBtu per hour heater, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.1.6 Visible Emissions Notations

- (a) Visible emission notations shall be performed once per shift during normal daylight operations when combusting fuel oil in any one of the three (3) 20.25 million Btu per hour Nebraska Boilers (EU1, EU2, and EU3). A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.7 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) shall be taken as stated below and shall be complete and sufficient to establish compliance with the SO₂ emission limits established in Condition D.1.1.
- (1) Pursuant to 40 CFR 60.48c(g) (326 IAC 12), the amounts of each fuel combusted during each day in the (3) three 20.25 million Btu per hour Nebraska boilers (EU1, EU2, and EU3);
 - (2) Pursuant to 40 CFR 52.21 (326 IAC 2-2), monthly sum of fuel oil combusted in the (3) three 20.25 million Btu per hour Nebraska boilers (EU1, EU2, and EU3);
 - (3) Calendar dates covered in the compliance determination period;
 - (4) Actual usage since last compliance determination period and value calculated per limitation;
 - (5) Fuel supplier certifications or the results of fuel oil analysis, and
 - (6) A certification, signed by the owner or operator, that the records of the fuel supplier certifications or results of fuel oil analysis represent all of the distillate or residual fuel combusted during the period.

The fuel supplier certification shall contain, as a minimum, the following:

- (7) The name of the fuel supplier; and
- (8) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.1.6, the Permittee shall maintain records of visible emission notations of the stack exhaust once per shift.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) The Production Paint Booths 1-5, identified as emission units 4 through 7 and 10, and the Aircraft Armament Equipment Paint Shop, identified as emission unit 8.
- (1) The Production Paint Booth 1, emission unit 4, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 1 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 1 is vented out stack identified as stack/vent S₄.
 - (2) The Production Paint Booth 2, emissions unit 5, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 2 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 2 is vented out stack identified as stack/vent S₅.
 - (3) The Production Paint Booth 3, emission unit 6, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 3 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 3 is vented out stack identified as stack/vent S₆.
 - (4) The Production Paint Booth 4, emission unit 7, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 4 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 4 is vented out stack identified as stack/vent S₇.
 - (5) The Aircraft Armament Equipment Paint Shop, emission unit 8, is equipped with an airless atomized sprayer with a dry filter to control over spray. This paint booth is used to coat avionics equipment. This booth was installed in 1995. Emission are vented out one stack identified as Stack vent S₈.
 - (6) The Production Paint Booth 5, emission unit 10, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 5 is used to coat avionics equipment. This booth was constructed in 1998. Emissions from Production Paint booth 5 is vented out stack identified as stack/vent S₁₀.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 VOC and HAP FESOP Limit [326 IAC 2-8-4] [326 IAC 8-2-9] [326 IAC 2-2] [40 CFR 52.21]

- (a) The VOC emissions from each paint booth (EU4-EU8, and EU10) are limited to less than fifteen (15) pounds per day each, such that the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) shall not apply. Compliance with these limits render the requirements of 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 8-2-9, (Miscellaneous Metal Coating Operations) and 326 IAC 2-2 (PSD) not applicable.
- (b) The amount of any single HAP delivered to the six (6) paint booths (EU4-EU8, and EU10) shall be limited to less than three and four tenths (3.4) tons per twelve (12) consecutive month period with compliance determined at the end of each month. The amount of any combination of HAPs delivered to the paint booths shall be less than eight and two tenths (8.2) tons per twelve (12) consecutive month period with compliance determined at the end of each month. These limits are structured such that when including the emissions of the insignificant activities, the total source single HAP emissions remain below ten (10) tons

per twelve (12) consecutive month period and the total source combination HAP emissions remain below twenty-five (25) tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with these limits render the requirements of 326 IAC 2-7 (Part 70 Permit Program).

D.2.2 Particulate Matter [40 CFR 52, Subpart P]

Pursuant to F097-5444-00100, issued on October 30, 1997 and [40 CFR 52, Subpart P], the particulate matter (PM) from the six (6) paint booths (EU4-EU8, and EU10) shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.2.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to F097-5444-00100, issued on October 30, 1997 and 326 IAC 6-3-2(d), particulate from the six (6) paint booths (EU4-EU8, and EU10) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.2.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each of the six (6) paint booths (EU4-EU8 and EU10).

Compliance Determination Requirements

D.2.5 Volatile Organic Compounds

Compliance with the VOC emissions limitations contained in Condition D.2.1 shall be determined based on the daily calculated VOC emissions rate. The daily VOC emissions rate shall be calculated based on the daily pounds of solvents and coatings used and the VOC content of coatings and solvents used.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.2.6 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (S4, S5, S6, S7, S8, and S10) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.7 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.1.
 - (1) The VOC content of each coating material and solvent used;
 - (2) The amount of coating material and solvent less water used on daily basis;
 - (a) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used;
 - (b) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (3) The volume weighted VOC content of the coatings used for each day;
 - (4) The cleanup solvent usage for each day;
 - (5) The total VOC usage for each day; and
 - (6) The weight of VOCs emitted for each compliance period.
- (b) To document compliance with Condition D.2.6, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.8 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

Cold degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter and St. Joseph Counties and which have potential emissions of one hundred (100) tons per year or greater of VOC, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
CITY OF INDIANAPOLIS
OFFICE of ENVIRONMENTAL SERVICES**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
CITY OF INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100

FESOP No.:

9	Natural Gas Only
9	Alternate Fuel burned
From: _____	To: _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**CITY OF INDIANAPOLIS
OFFICE of ENVIRONMENTAL SERVICES
DATA COMPLIANCE
2700 South Belmont Avenue
Indianapolis, Indiana 46221
Phone:317-327-2234
Fax:317-327-2274**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and
 CITY OF INDIANAPOLIS
 OFFICE of ENVIRONMENTAL SERVICES**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Raytheon Technical Services Company
 Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
 Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
 FESOP No.: 097-14722-00100

Months: _____ **to** _____ **Year:** _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p>9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p>9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
<p>Permit Requirement (specify permit condition #)</p>	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 AND
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Raytheon Technical Services Company
 Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
 Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
 FESOP No.: 097-14722-00100
 Facility: Three (3) 20.25 MMBtu/hour Nebraska Boilers (EU1, EU2, and EU3)
 Parameter: Sulfur Dioxide (SO₂)
 Limit: No. 2 oil usage limited to 2,588.44 kgals per 12 consecutive month period with compliance determined at the end of each month; SO₂ emissions limited to 0.5 lbs/MMBTU heat input

Year: _____

M O N T H	No. 2 Oil (kgal/ month)	Natural Gas (MMCF/ month)	No. 2 Oil Equivalent (kgal) (.0086 x MMCF)	TOTAL No. 2 Oil Usage this month (kgal)	No. 2 Oil Usage Last 12 months (kgal/ 12 months)	No. 2 Oil LIMIT (kgal/ 12 months)	Sulfur Content (%)	Heat Content (MMBTU)
						2,588.44		
						2,588.44		
						2,588.44		

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 AND
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100
Facility: Six (6) Paint Booths (EU4-EU8, and EU10).
Parameter: VOCs
Limit: Limited to less than 15 pounds of VOC per day for each Paint Booth (EU4, EU5, EU6, EU7, EU8, and EU10).

Month: _____ **Year:** _____

Day	Pounds of VOC emitted this day						Day	Pounds of VOC emitted this day					
	EU4	EU5	EU6	EU7	EU8	EU10		EU4	EU5	EU6	EU7	EU8	EU10
1							17						
2							18						
3							19						
4							20						
5							21						
6							22						
7							23						
8							24						
9							25						
10							26						
11							27						
12							28						
13							29						
14							30						
15							31						
16													

(use one sheet per month for each month in the quarter)

- 9 No deviation occurred in this month.
- 9 Deviation/s occurred in this month.
 Deviation has been reported on: _____

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and
 CITY OF INDIANAPOLIS
 OFFICE of ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100
Facility: Six (6) Paint Booths (EU4-EU8, and EU10).
Parameter: HAP Emissions
Limit: 3.4 tons of an individual HAP per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
CITY OF INDIANAPOLIS
OFFICE of ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Raytheon Technical Services Company
Source Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
Mailing Address: 6125 East 21st Street (Mail Stop 71), Indianapolis, IN 46219
FESOP No.: 097-14722-00100
Facility: Six (6) Paint Booths (EU4-EU8, and EU10).
Parameter: HAP Emissions
Limit: 8.2 tons of any combination of HAPs per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality
and
City of Indianapolis
Office of Environmental Services**

Addendum to the
Technical Support Document for Federally Enforceable State Operating Permit
(FESOP) Renewal

Source Background and Description

Source Name:	Raytheon Technical Services Co.
Source Location:	6125 East 21st Street, Indianapolis, IN, 46219
County:	Marion
SIC Code:	3823, 7699, 3669, 3679, 3812, 8711
Operation Permit No.:	F097-14722-00100
Permit Reviewer:	N. Olsen

On March 21, 2003, the Office of Environmental Services (OES) had a notice published in the Indianapolis Star Newspaper, Indianapolis, Indiana, stating that Raytheon Technical Services Co. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a hot mix asphalt plant. The notice also stated that OES and Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The following changes, to the draft FESOP Renewal Permit, will be made. The TSD will remain as it originally appeared when published. These changes have no effect on the limited potential to emit (PTE) for this source. OES and OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Upon further review, the OES has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

1. Condition A.3 Insignificant Activities. The IAC reference to the definition of a laboratory under A.3 (q) was incorrectly cited as 326 IAC 2-7-1(20)(C) when it should have been cited as 326 IAC 2-7-1(21)(D). This change does not affect the limited potential to emit. The condition has been updated to include the correction:

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (q) A laboratory as defined in 326 IAC 2-7-1 ~~(20)(C)~~ **(21)(D)**.

2. Condition D.1.1 Particulate Emissions (PM). A portion of the definition of "Q" was inadvertently excluded from the permit. The definition was complete in the TSD. The permit has been changed to include the entire definition as it written in the TSD. This change does not affect the limited potential to emit:

D.1.3 Particulate Emissions (PM) [326 IAC 6-2-4]

The three (3) Nebraska Boilers (EU1, EU2, and EU3) are subject to the PM limits in 326 IAC 6-2-4. This regulation applies since these units do not have actual PM emissions greater than 10 tons per year, are used for indirect heating, and were all installed after September 21, 1983. Pursuant to 326 IAC 6-2-4, particulate matter (PM) emissions shall be limited by the following equation

$$Pt = \frac{1.09}{Q^{0.26}}$$

- Where Pt = Pounds of PM emitted per million Btu(lb/mmBtu) heat input. Pt is equivalent to 0.37 lbs/mmBtu or 7.49 lbs/hr at maximum heat input capacity.
- Q = Total source maximum operating capacity rating in mmBtu per hour heat input. Q is equivalent to 60.75 MMBtu per hour **since in the case that all three boilers were operating simultaneously.**

3. Condition D.1.1 Volatile Organic Compounds (VOC). This condition refers to 326 IAC 8-3-5 (Cold Cleaner Operation) which is applicable to degreasing operations constructed after 1980. The degreaser at this source existed prior to 1980. Therefore this condition is being removed. This change does not affect the limited potential to emit. The permit has been changed as follows:

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- ~~(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:~~
- ~~(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:~~
- ~~(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));~~
- ~~(B) The solvent is agitated; or~~
- ~~(C) The solvent is heated.~~
- ~~(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.~~

- ~~(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).~~
- ~~(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.~~
- ~~(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - ~~(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.~~
 - ~~(B) A water cover when solvent is used is insoluble in, and heavier than, water.~~
 - ~~(C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.~~~~
- ~~(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
 - ~~(1) Close the cover whenever articles are not being handled in the degreaser.~~
 - ~~(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.~~
 - ~~(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.~~~~
- 4. Under the "Existing Approval" section on page 3 of 12 in the TSD, the sentence "All conditions form previous approvals were incorporated into this Part 70 permit except for the following:" should have been written "All conditions form previous approvals were incorporated into this Renewal except for the following:"
- 5. The date reported for submittal of the Emergency Reduction Plan (ERP) under 326 IAC 1-5-2 on page 7 of 12 of the TSD has changed. During the Renewal public notice period, the source submitted an updated ERP. The new ERP submittal date is May 1, 2003.
- 6. Under the "State Rule Applicability - Entire Source" section on page 8 of 12 of the TSD, the last sentence in 326 IAC 2-8-4 (b) reads, "Compliance with these limits render the requirements of 326 IAC 2-7 (Part 70 Permit Program)." This should have been written, "Compliance with these limits render the requirements of 326 IAC 2-7 (Part 70 Permit Program) not applicable."
- 7. The applicability of 326 IAC 8-3-5 was incorrectly explained on page 11 of 12 in the TSD. The source is not subject to 326 IAC 8-3-5 because the degreasing facility existed prior to January 1980.

**Indiana Department of Environmental Management
Office of Air Quality
and
City of Indianapolis
Office of Environmental Services**

Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Raytheon Technical Services Company
Source Location:	6125 East 21 st Street, Indianapolis, IN, 46219
County:	Marion
SIC Code:	3823, 7699, 3669, 3679, 3812, 8711
Operation Permit No.:	097-14722-00100
Permit Reviewer:	N. Olsen

The Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES) have reviewed a FESOP renewal application from Raytheon Systems Company relating to the operation of avionic equipment manufacturing. Raytheon was issued FESOP 097-5444-00100 on October 30, 1997.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) Three (3) 20.25 MMBtu per hour Nebraska boilers, identified as EU1, EU2, and EU3, fired with either natural gas or distillate oil, constructed after June 9, 1989, with emissions exhausted to a separate stack for each boiler, identified as stacks S₁, S₂ and S₃.
- (b) The Production Paint Booths 1-5, identified as emission units 4 through 7 and 10, and the Aircraft Armament Equipment Paint Shop, identified as emission unit 8.
 - (1) The Production Paint Booth 1, emission unit 4, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 1 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 1 is vented out stack identified as stack S₄.
 - (2) The Production Paint Booth 2, emissions unit 5, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 2 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 2 is vented out stack identified as stack S₅.
 - (3) The Production Paint Booth 3, emission unit 6, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 3 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 3 is vented out stack identified as stack S₆.

- (4) The Production Paint Booth 4, emission unit 7, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 4 is used to coat avionics equipment. This booth was constructed in 1987. Emissions from Production Paint booth 4 is vented out stack identified as stack S₇.
- (5) The Aircraft Armament Equipment Paint Shop, emission unit 8, is equipped with an airless atomized sprayer with a dry filter to control over spray. This paint booth is used to coat avionics equipment. This booth was installed in 1995. Emission are vented out one stack identified as stack S₈
- (6) The Production Paint Booth 5, emission unit 10, is equipped with one atomized airless spray gun and a dry filter to control particulate emissions from over spray. Production Paint Booth 5 is used to coat avionics equipment. This booth was constructed in 1998. Emissions from Production Paint booth 5 is vented out stack identified as stack S₁₀.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Insignificant Activities

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (b) A petroleum fuel, other than gasoline dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (c) Vessels storing lubricating oils, hydraulic oils, machining oils and machining fluids;
- (d) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (e) Cold degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, these operations are subject to 326 IAC 8-3-2 and 326 IAC 8-3-5;
- (f) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 F) or;
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 C (68 F);the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months;
- (g) The following equipment related to manufacturing activities not resulting in emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (h) Activities associated with the treatment of waste streams with an oil and grease content less than or equal to 1% by volume;
- (i) Forced and induced draft cooling tower systems not regulated under a NESHAP;
- (k) Paved and unpaved roads and parking lots with public access;
- (l) Asbestos abatement projects regulated by 326 IAC 14-10;

- (m) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment;
- (n) Blowdown for any of the following: sight glass: boiler; compressors; pumps and cooling towers;
- (o) Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to 450 cubic inches by volume;
- (p) Emergency generators as follows:
Diesel generators not exceeding 1600 horse power;
- (q) A laboratory as defined in 326 IAC 2-7-1(20)(C).

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP 097-5444-00100, issued on October 30, 1997; and expiring on October 30, 2002, and;
- (b) First Minor Permit Modification 097-9973-00100, issued on September 10, 1998.

The following emission unit description has been removed from this Renewal:

- (a) Deburring operation, identified as emission unit 9. This facility was installed in 1982. The particulate emissions from this unit are controlled by a venturi scrubber which exhausts out one stack identified as S₉.

All conditions from previous approvals were incorporated into this Part 70 permit except for the following:

- (a) D.3.1 Particulate Matter
The venturi scrubber shall be in operation at all times when the deburring process is in operation. The particulate matter emissions from this facility shall not exceed 0.55 pounds per hour pursuant to 326 IAC 6-3-2(c).

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.3.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

D.3.3 Testing Requirements [326 IAC 2-8-5(1)]

Compliance with the PM emission limitations established in condition D.1.2 shall be determined based on stack testing. Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-1-4(f) and 326 IAC 2-8-4.

D.3.4 Particulate Matter (PM) Emissions

The venturi scrubber shall be in operation at all times when the deburring facility is in operation.

D.3.5 Visible Emission Notations

- (a) Weekly visible emission notations shall be performed during normal daylight operations when the deburring facility is in operation. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.3.6 Record Keeping Requirements

- (a) To document compliance with Condition D.3.5, the Permittee shall maintain a log of weekly visible emissions notations, and those additional inspections prescribed by the Preventative Maintenance Plan.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Reason not incorporated: All of the above conditions applied to the deburring operation (EU-9) which has been removed. Therefore these conditions contained within Section D.3 are no longer applicable.

Emission Calculations

Emission calculations for this source can be found in Appendix A, pages 1 through 4 of 4.

Recommendation

The staff recommends to the Administrator that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on July 27, 2001.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	20
PM-10	20
SO ₂	128
VOC	300
CO	9
NO _x	37

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Unrestricted Potential Emissions (tons/yr)
Individual HAP	>10
Combined HAPs	>25

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of VOC and SO₂ is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
 Since this type of operation is one of the listed source categories under 326 IAC 2-2-1(w)(2) and since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on October 30, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. The source's potential to emit is based on the emission units included in the original FESOP (F097-5444-00100; issued on May 28, 1998), First Minor Permit Modification (MMF097-9973-00100; issued September 10, 1998), and the removal of emission unit 9 which is being incorporated into this Renewal.

Process/ Facility	Potential to Emit After Issuance (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Three (3) Boilers	3.7 ¹	3.7 ¹	90.1 ¹	1.3 ¹	9.3 ¹	37.3 ¹	0.0
Paint Booths EU4 EU5 EU6 EU7 EU8 EU10	7.95 ²	7.95 ²	0.0 ²	16.4 total ³ (6 booths @ 2.73 ea)	0.0	0.0	Less than 3.4 tons of any single HAP ³ Less than 8.2 tons of any combination of HAPs (6 booths x 2.73 x 50%) ³
Insignificant Activities	0.0	0.0	1.3	0.0	0.0	0.0	0.0
Total PTE After Issuance	11.7	11.7	91.4	17.7	9.3	37.3	3.4 (single HAP) 8.2 (comb. of HAPs)

¹ Based on fuel usage limits.

² Based on dry filters.

³ Based on limit to avoid 326 IAC 8-2-9.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO ₂	maintenance
NO ₂	attainment
Ozone	maintenance
CO	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) The (3) three 20.25 MMBtu per hour boiler (EU1, EU2 and EU3) are subject to the New Source Performance Standard for Small Industrial - Commercial - Institutional Steam Generator Units, 40 CFR Part 60.40c, Subpart Dc (312 IAC 12), because they were constructed after June 9, 1989 and have heat input capacities greater than 10 million Btu per hour. The NSPS limits the sulfur content of fuel oil combusted to no greater than 0.5 percent by weight and subjects the source to the reporting and recordkeeping requirements described under 40 CFR Part 60.48c, Subpart Dc.
- (b) The two (2) storage vessels used as fuel transfer and dispensing facilities and listed as insignificant activities are not subject to the NSPS, 40 CFR Part 60.110b through 60.117b Subpart Kb (326 IAC 12) because this rule only applies to storage vessels with capacity

greater than or equal to forty (40) cubic meters (m³) and these storage vessels have capacity less than forty (40) m³.

- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.
 - (1) The cold degreasing operations are not subject to 40 CFR Part 63.460, Subpart T (NESHAPs) (326 IAC 14 and 40 CFR Part 63) because the source does not operate a batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plan)

The source has submitted an Emergency Reduction Plan (ERP) on November 16, 1988. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plan).

326 IAC 1-6-3 (Preventative Maintenance Plan)

Pursuant to 326 IAC 1-6-1 and 326 IAC 1-6-3, a Preventative Maintenance Plan (PMP) should have been developed for each facility that was formerly permitted as a registration level. Since this source is regulated under 326 IAC 2-8 IDEM, OAQ and OES have established the following guidelines for determining if a facility is required to develop a PMP:

Preventative Maintenance Plans (PMP) are required for all emitting units which emit PM, SO₂, or VOC with existing applicable requirements and;

- (a) a NSPS or NESHAP applies; or
- (b) the unit has a control device and allowable emissions exceed 10 pounds per hour; or
- (c) the unit does not have a control and actual emissions exceed 25 tons per year; or
- (d) the unit would have been subject to an applicable requirement if there was not a condition limiting the PTE

Based on IDEM, OAQ and OES review, a PMP is required for the three (3) Nebraska boilers (EU1, EU2, and EU3) because the units are subject to the NSPS, 40 CFR 60.40c, Subpart Dc (312 IAC 12).

A PMP is also required for each of the six (6) paint booths (EU4-EU8 and EU10) because the units have a control and allowable emissions exceed 10 pounds per hour.

326 IAC 2-2-2 (Prevention of Significant Deterioration)

The source commenced construction prior to the applicability date of August 7, 1977, and therefore does predate this rule. The source is not on the list of twenty-eight (28) listed source categories. The potential emissions from the coating operations are greater than major threshold levels, however actual VOC emissions have never exceeded major threshold levels. The source has accepted limits such that the requirements of 326 IAC 2-2 and 40 CFR 52.21 (PSD) do not apply. The potential to emit of VOC is being enforceably restricted to less than one hundred (100) tons per year such that 326 IAC 2-7 does not apply.

326 IAC 2-4.1 (Hazardous Air Pollutants)

The source is not subject to 326 IAC 2-4.1 because the plant was manufactured prior to the applicability date of the rule (July 27, 1997) and the source is not a major source of hazardous air pollutants, as defined in 40 CFR 63. The modification which occurred in 1998 did not in and of itself have the potential to emit greater than ten (10) tons per year of any single HAP or twenty-five (25) tons per year of any combination of HAPs. This modification did not cause source wide limited

potential to emit of an individual HAP or combination of HAPs to exceed the thresholds listed in 326 IAC 2-7-1(22), thus the source does not have major potential to emit for HAPs.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because the source is located in Marion County and it has the potential to emit more than ten (10) tons per year of NO_x and VOCs. Pursuant to this rule, the owner/operator of the source must submit an emission statement for the source. The statement must be received by April 15 of each year, in accordance with the compliance schedule specified in 326 IAC 2-6 and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8).

326 IAC 2-8-4 (FESOP)

(a) Pursuant to this rule, source wide emissions of VOC and SO₂ shall be limited to less than one hundred (100) tons per year such that it does not fall within any of the categories listed in 326 IAC 2-7-2(a) and that assure compliance with all applicable requirements at the time of FESOP issuance (See Emissions Calculations, Appendix A). The following limits shall apply to assure compliance with this rule:

(1) Sulfur Dioxide (SO₂)

The input of No. 2 distillate oil to the three (3) 20.25 MMBtu per hour Nebraska Boilers (EU1, EU2, And EU3) shall be limited to less than 2,588.44 thousand gallons (kgals) per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to SO₂ emissions of 90.1 tons per year. These limits are structured such that when including emissions from insignificant activities, the total source SO₂ emissions remain below one hundred (100) tons per twelve (12) consecutive month period. Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

For purposes of determining compliance based on SO₂ emissions, every one (1) million cubic feet (MMCF) of natural gas shall be equivalent to 0.0086 Kilo-gallons (Kgal) of No. 2 oil.

(2) Volatile Organic Compounds (VOCs)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Parts Operations), VOC emissions from the six (6) independently parallel paint booths (EU4-EU8, and EU10) shall not exceed fifteen (15) pounds per day per paint booth such that 326 IAC 8-2-9 shall not apply. This is equivalent to two and seventy-three hundredths (2.73) tons of VOC per year. These limits are structured such that when including emissions from insignificant activities, the total source VOC emissions remain below one hundred (100) tons per twelve (12) consecutive month period. Compliance with 326 IAC 8-2-9 assures compliance with 326 IAC 2-8-4 and makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

(b) The amount of any single HAP delivered to the six (6) paint booths (EU4-EU8, and EU10) shall be limited to less than three and four tenths (3.4) tons per twelve (12) consecutive month period with compliance determined at the end of each month. The amount of any combination of HAPs delivered to the paint booths shall be less than eight and two tenths (8.2) tons per twelve (12) consecutive month period with compliance determined at the end of each month. These limits are structured such that when including the emissions of the insignificant activities, the total source single HAP emissions remain below ten (10) tons per twelve (12) consecutive month period and the total source combination HAP emissions remain below twenty-five (25) tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with these limits render the requirements of 326 IAC 2-7 (Part 70 Permit Program).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the source is subject to this rule because the source is located in Marion County, except for the area of Washington Township east of Fall Creek and the area of Franklin Township south of Thompson Road and east of Five Points Road. Thus, opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4. Compliance with 40 CFR Part 60.90, Subpart I satisfies the requirement for 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-1-2 (Particulate Matter)

Pursuant to 326 IAC 6-1-2, EU1- EU8 and EU-10 are not subject to this rule because each emitting unit does not have the potential to emit one hundred (100) tons or more of particulate matter per year or have actual emissions of ten (10) tons or more of particulate matter per year.

State Rule Applicability - Individual Facilities

Boilers

326 IAC 1-7 (Stack Height Provisions)

The three (3) Nebraska Boilers (EU1, EU2, and EU3) each have potential SO₂ emissions in excess of 25 tons per year and were constructed after June 19, 1979. Based on the information supplied in the application stacks 1, 2 and 3 do not comply with the GEP stack height requirements. The GEP stack height for these stacks was calculated to be 95 ft. (the actual stack height listed in the application is 50 ft.) based on the following equation:

$$S = H + 1.5 (L) \quad \text{where: } S = \text{Stack height, (feet)}$$
$$H = \text{Height of supporting or nearby structure (whichever is largest), (feet) , 38 ft}$$
$$L = \text{Lesser dimension (height or width) of the structure chosen for H, (feet), 38 ft}$$

A screening model analysis conducted by OES using the actual stack height of 50 ft. showed no violation of the three (3) hour or twenty four (24) hour National Ambient Air Quality Standard for SO₂. The screening modeling analysis predicted a maximum one hour concentration (175 ug/m³) for one boiler, this concentration was multiplied by 3 to account for the three identical units (525 ug/m³), adjusted to reflect a 3 hour (525 ug/m³ x 0.9 = 472 ug/m³) and 24 hour (525 ug/m³ x 0.4 = 201 ug/m³) averaging times, and compared against the NAAQS for SO₂ (1,300 ug/m³ 3 hour average and 365 ug/m³ for 24 hour average). On February 28, 2003, IDEM, OAQ and OES reviewed 326 IAC 1-7 (Stack Height Provisions) applicability and determined that modeling based on the height of the stacks 1,2,and 3 do not demonstrate a violation of the standard, therefore compliance with NAAQS has been verified. Thus, 326 IAC 1-7 (Stack Height Provisions) is waived for stacks 1,2, and 3 for boilers EU1, EU2, and EU3.

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The three (3) Nebraska Boilers (EU1, EU2, and EU3) are subject to the PM limits in 326 IAC 6-2-4. This regulation applies because the boilers are used for indirect heating and were all installed after September 21, 1983. Pursuant to 326 IAC 6-2-4, particulate matter (PM) emissions shall be limited by the following equation

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Pt = Pounds of PM emitted per million Btu(lb/mmBtu) heat input. Pt is equivalent to 0.37 lbs/mmBtu or 7.49 lbs/hr at maximum heat input capacity.

Q = Total source maximum operating capacity rating in mmBtu per hour heat input. Q is equivalent to 60.75 MMBtu per hour in the case that all three boilers were operating simultaneously.

326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitations)

The source is subject to 326 IAC 7-1.1-2, because the potential to emit SO₂ from the three (3) 20.25 MMBtu per hour boilers (EU1, EU2, And EU3) exceeds twenty-five (25) tons per year. Pursuant to this rule, sulfur dioxide emissions from the combustion of distillate (No. 2) oil shall be limited to 0.5 pounds per million Btu (lb/MM Btu) heat input (the equivalent of 0.5% sulfur content).

Paint Booths

40 CFR 52, Subpart P (Particulate)

Pursuant to F097-5444-00100, issued on October 30, 1997 and [40 CFR 52, Subpart P], the particulate matter (PM) from the six (6) paint booths (EU4-EU8, EU10) shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

326 IAC 6-3-2 (Process Operations)

Pursuant to F097-5444-00100, issued on October 30, 1997 and 326 IAC 6-3-2(d), particulate from the six (6) paint booths (EU4-EU8, and EU10) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

326 IAC 8-2-9 (Miscellaneous Metal Parts Coating Operations)

This regulation will apply to the six (6) paint booths (EU4-EU8, and EU10) separately, if the actual VOC emissions exceed fifteen (15) pounds per day per emission unit. This regulation is potentially applicable since these facilities are located in Marion county and are being used to coat metal parts under the Standard Industrial Classification Code of major group 36. The FESOP limits the VOC emissions for each booth separately to less than 15 pounds per day each (which is equivalent to 2.73 tons per year each) such that Miscellaneous Metal Parts Regulation 326 IAC 8-2-9 shall not apply. According to source usage records these booths do not emit more than fifteen (15) pounds of VOCs per day per booth.

Degreaser

326 IAC 8-3-2 (Cold Cleaner Operation)

The source is subject to 326 IAC 8-3-2 because the source is located in Marion County, performs organic solvent degreasing operations which existed prior to January 1, 1980, and has the potential source wide VOC emissions of greater than one hundred (100) tons per year. This regulation applies the Safety Kleen degreasing operation. The source shall ensure that the operation requirements contained within the rule are met.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The source is subject to 326 IAC 8-3-5 because the source is located in Marion County, performs organic solvent degreasing operations which existed prior to January 1, 1980, and has the potential VOC emissions of greater than one hundred (100) tons per year. This regulation applies to the Safety Kleen degreasing operation. The source shall ensure that the control equipment requirements contained within the rule are met.

Welding

326 IAC 6-3-2 (Process Operations)

The source is not subject to 326 IAC 6-3-2 because the welding operations performed by the source consume less than six hundred twenty-five (625) pounds of rod or wire per day.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

- (1) The three (3) Nebraska Boilers (EU1, EU2, and EU3) have applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the exhaust stack from the boilers shall be performed once per shift during normal daylight operations when burning fuel oil. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

These monitoring conditions are necessary in order to ensure compliance with 326 IAC 2-8 (FESOP) and 326 IAC 6-2-4.

- (2) The six (6) Paint Booths (EU4-EU8, and EU10) have applicable compliance monitoring conditions as specified below:
- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (S4, S5, S6, S7, S8, and S10) while one or more of the booths are in operation.

The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
 - (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
 - (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary in order to ensure compliance with 326 IAC 2-8 (FESOP) and 326 IAC 6-3, and avoid becoming a major PSD source under 326 IAC 2-2.

Conclusion

The operation of avionic equipment manufacturing shall be subject to the conditions of the attached proposed FESOP No.: F097-14722-00100.

APPENDIX A

Three (3) Nebraska Boilers (Emissions Units 1, 2 and 3) Combustion Emissions

Company Name: Raytheon Technical Services Co.
Street Address: 6125 East 21st Street, Indianapolis, IN 46219
County: Marion County
Operation Permit No.: 097-14722-00100
Reviewer: N. Olsen

Boiler 1,2 and 3 heat input capacity	20.25	MMBtu/hr (each)
Heat Content of #2 Fuel Oil	145,000.00	Btu/gal
Heat Content of Natural Gas	1,000.00	Btu/cf
Maximum Firing Rate #2 Fuel Oil	0.140	Mgal/hr
Maximum Firing Rate Natural Gas	0.020	MMcf/hr

Distillate Fuel Oil usage (limited)	2,588.45	kgals/year
Natural Gas usage (not limited)	375,324.58	MMBtu/yr
S = Weight % Sulfur	0.49	%

Source of Emissions Factors	Pollutant						
	PM	PM-10	SO ₂	NO _x	VOC	CO	Lead
Distillate Oil (lb/kgal) AP-42	2.00	1.00	69.58	20.00	0.20	5.00	0.00
Natural Gas (lbs/MMcf) AP-42	14.00	14.00	0.60	140.00	4.81	35.00	0.00

Type of Fuel	Potential Emissions for All Boilers Combined (tons/yr)						
	PM	PM-10	SO ₂	NO _x	VOC	CO	Lead
Distillate Oil	3.67	1.84	127.68	36.70	0.37	9.18	0.002
Natural Gas	3.73	3.73	0.16	37.25	1.28	9.31	0.0001
Potential Emissions	3.73	3.73	127.68	37.25	1.28	9.31	0.002
Total Limited PTE (tons/yr)	3.73	3.73	90.05	37.25	0.37	9.31	0.0016

Methodology:

1 gallon of No. 2 Fuel Oil has a heating value of 145,000 Btu, Natural Gas has a heating value of 1000 Btu/cf.
 Emission Factors are from AP 42, Tables 1.3-2 and 1.3-4 (SCC 1-02-005-01/02/03) for Distillate Oil and AP-42, Tables 1.4-1,2,3, and 5 for Natural Gas
 Emissions from Distillate Oil Combustion - Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
 Emissions from Natural Gas Combustion - Emission (tons/yr) = Throughput (MMcf/ yr) x Emission Factor (lb/MMcf)/2,000 lb/ton

Fuel usage limitation for all boilers combined such that 326 IAC 2-7 shall not apply for SO₂

$$((90.75 \text{ ton/yr} - 0.16 \text{ tons/yr} - 0.54 \text{ tons/yr}) \times 2000 \text{ lbs/ton}) / (142 (0.49) \text{ lbs/1000 gal}) = 2588445.39 \text{ gallons}$$

Note: 0.16 tons/yr of SO₂ is equivalent to the potential SO₂ emissions from Natural Gas Combustion.

0.54 tons/yr of SO₂ is equivalent to the potential SO₂ emissions from insignifica

Allowable Particulate Emissions

$$Pt = 1.09/Q^{0.26}$$

$$Pt = 0.37 \text{ lbs/MMBtu}$$

$$Q = 60.75 \text{ MMBtu/hr}$$

**Public Works and Production Paint Booth
(Emissions Unit 4, 5,6,7,8, and 10)
From Surface Coating Operations**

Company Name: Raytheon Technical Services Co.
Street Address: 6125 East 21st Street, Indianapolis, IN 46219
County: Marion County
Operation Permit No.: 097-14722-00100
Reviewer: N. Olsen

Material	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Pounds VOC per gallon of coating less water
Specialty Coating	8.0	42.00%	0.0%	42.0%	0.0%	0.00%	3.36
Epoxy Mil C-22750	11.6	29.40%	0.0%	29.4%	0.0%	3.60%	3.41
Epoxy Primer MIL-P-23377	8.6	70.00%	0.0%	70.0%	0.0%	30.00%	6.04
Polyurethane MIL-C-85258	10.2	38.00%	0.0%	38.0%	0.0%	46.00%	3.88
Type II Epoxy Thinner MIL-8177	7.0	100.00%	0.0%	100.0%	0.0%	0.00%	7.00

Material	Gallons of Material required for one production unit	Maximum No. of Production Units per hour	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	Transfer Efficiency
Specialty Coating	0.1600	3.17	1.70	40.90	7.46	0.56	75%
Epoxy Mil C-22750	0.0400	146.70	20.01	480.29	87.65	6.43	75%
Epoxy Primer MIL-P-23377	0.0200	99.43	12.01	288.32	52.62	2.18	75%
Polyurethane MIL-C-85258	0.0200	121.80	9.44	226.61	41.36	2.67	75%
Type II Epoxy Thinner MIL-8177	0.0200	180.00	25.20	604.80	110.38	3.94	75%

Potential emissions (tons/yr): **299.47** **15.77**

Material	Percentage HAP in Top 5 Coating and Solvents Resulting in the Max HAP Emissions				
	Xylene	Toluene	MEK	Ethyl Benzene	MIK
Specialty Coating	0.00%	0.00%	50.00%	0%	0%
Epoxy Mil C-22750	0.71%	9.17%	15.88%	0.00%	0.00%
Epoxy Primer MIL-P-23377	0.00%	5.00%	20.00%	0%	0%
Polyurethane MIL-C-85258	1.00%	1.00%	5.00%	1%	15%
Type II Epoxy Thinner MIL-8177	0.00%	0.00%	39.15%	0%	0%

Material	Individual HAP Potential Emissions (tons/yr)				
	Xylene	Toluene	MEK	Ethyl Benzene	MIK
Specialty Coating	0.00	0.00	8.89	0.00	0.00
Epoxy Mil C-22750	0.62	8.04	13.92	0.00	0.00
Epoxy Primer MIL-P-23377	0.00	3.76	15.03	0.00	0.00
Polyurethane MIL-C-85258	1.09	1.09	5.44	1.09	16.32
Type II Epoxy Thinner MIL-8177	0.00	0.00	43.21	0.00	0.00

Total Individual HAP Emission **1.71** **12.89** **86.49** **1.09** **16.32**
Total Combined HAP Emission **118.50**

Limited Potential to Emit

Material	Gallons of Material required for one production unit	Limited PTE Pounds of VOC per Day	Pounds VOC per gallon of coating less water	Volume % Non-Vol (solids)	Maximum Gallon per Day	Maximum pounds of coating per day	Maximum pounds of particulate per day	Maximum tons of particulate per year per booths
Specialty Coating	0.1600	15.00	3.36	0.00%	4.46	35.71	0.00	0.00
Epoxy Mil C-22750	0.0400	15.00	3.41	3.60%	4.40	51.02	0.46	0.50
Epoxy Primer MIL-P-23377	0.0200	15.00	6.04	30.00%	2.48	21.43	1.61	1.76
Polyurethane MIL-C-85258	0.0200	15.00	3.88	46.00%	3.87	39.47	4.54	4.97
Type II Epoxy Thinner MIL-8177	0.0200	15.00	7.00	0.00%	2.14	15.00	0.00	0.00

Material	Individual HAP Potential Emissions (tons/yr)				
	Xylene	Toluene	MEK	Ethyl Benzene	MIK
Specialty Coating	0.00	0.00	3.26	0.00	0.00
Epoxy Mil C-22750	0.07	0.85	1.48	0.00	0.00
Epoxy Primer MIL-P-23377	0.00	0.20	0.78	0.00	0.00
Polyurethane MIL-C-85258	0.07	0.07	0.36	0.07	1.08
Type II Epoxy Thinner MIL-8177	0.00	0.00	1.07	0.00	0.00

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr)*(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Insignificant Emitting Activities

Company Name: Raytheon Technical Services Co.
Street Address: 6125 East 21st Street, Indianapolis, IN 46219
County: Marion County
Operation Permit No.: 097-14722-00100
Reviewer: N. Olsen

Diesel Generator

665.00	HP
Diesel	Fuel
0.40	% Sulfur by Wt. (AP-42)
0.01	Lbs SO2/HP-hr
0.00	Lbs VOC/HP-hr
2.15	lbs SO2/hr
0.48	lbs VOC/hr
0.54	tons SO2/yr
0.12	tons VOC/yr

Source Wide Emissions Summary

Company Name: Raytheon Technical Services Co.
Street Address: 6125 East 21st Street, Indianapolis, IN 46219
County: Marion County
Operation Permit No.: 097-14722-00100
Reviewer: N. Olsen

	Unrestricted PTE (tons/yr)					
	TSP	PM-10	SO2	NOX	VOC	CO
Three Nebraska Boilers (emission units 1, 2 and 3)	3.73	3.73	127.68	37.25	1.28	9.31
Paint Booth (EU4-EU8, and EU10)	15.77	15.77	0.00	0.00	299.47	0.00
Insignificant Emitting Activities	Neg	Neg	0.54	Neg	0.12	Neg
Total Potential Emissions	19.49	19.49	128.22	37.25	300.87	9.31

	Restricted PTE (tons/yr)					
	TSP	PM-10	SO2	NOX	VOC	CO
Three Nebraska Boilers (emission units 1, 2 and 3)	3.73	3.73	90.21	37.25	0.37	9.31
Paint Booth (EU4-EU8, and EU10)	0.16	0.16	0.00	0.00	13.69	0.00
Insignificant Emitting Activities	Neg	Neg	0.54	Neg	0.12	Neg
Total Limited PTE	3.88	3.88	90.75	37.25	14.18	9.31

Limited PTE for SO2 Emissions

Three (3) Nebraska Boilers (Fuel Oil), cap is on fuel oil	90.05	tons/yr
Three (3) Nebraska Boilers (Natural Gas)	0.16	tons/yr
Insignificant Emitting Activities	0.54	tons/yr
	90.75	tons/yr

The VOC limit of less than 15 lbs per day for emission units 4,5,6,7, 8, and 10 satisfies the requirement to limit HAP emissions to less than 10 tons of an individual HAP and 25 tons of any combination of HAPs.